Security Force Reduction

Force Protection Technology and Applications

Overview

U.S. ARMY NIGHT VISION

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Force Protection Technology

A Technology Umbrella for Protection

- Personnel Protection
- Vehicle Protection
- Barriers/Structures
- Comm/C2
- IPB/IED
- Lethal/Non-Lethal
- Chem/Bio Sensors

Users’ required output from Force Protection Technology

1. **Increase unit survivability** – extend the eyes and ears of the operator
2. **Reduce manpower demands** for Force protection – seek a forced multiplier
3. **Increase response force efficiency** – standoff detection/assessment, aid in directing and tailoring the response
4. **Adjust to dynamic threats and environments** – “plug and play” arch – pre-engineered system modules for maximum
5. **Mission flexibility** and ease of employment
6. **Cost effective**

**Sensors** - the one technology area that provides broad capability to meet the operational goals
Real World Expertise

Conventional Facility Security
- ICIDS

Custom Security Solutions
- Surveillance Systems

Tactical Security / Force Protection
- System Integration Field Spt.
- Gate
- Cerberus
- SPIDER (OEF)
- CAMS

Homeland Defense

Surveillance Systems
Center of ALA
- Rolling terrain
- Heavily forested
- Wildlife & Cattle
- Roving patrols cover perimeter between OPs

Enhanced Perimeter Security for Army Critical Storage Sites
Beyond-the-Fence Surveillance

CERBERUS

Detection

Assessment

Command & Control

Thermal Imagery

Day/Night Sensors Cued by GSR

Color Imagery

Site Map with Overlaid Radar/UGS/Imagery/Alarms

Unattended Ground Sensor (UGS)

Ground Surveillance Radar (GSR)

Video Motion Detection (VMD)

Covert Imaging UGS

Video Motion Detection (VMD)
Cerberus Imaging Head
W/ Both Thermal and Day cameras
Staring Cameras, Lower ones,
Slew camera ctr top

Cerberus Installed

Cerberus ready for Ship
CERBERUS
Family of Mobile Integrated Sensors

Remote Detection
Enhanced Standoff and Coverage
Forward Tactical
Rapid Deployment - Short Range

Site Security - Short Range
Site Security - Long Range
Border Surveillance

Common Architecture – Shared Display

Distributed SA
Upper Echelon

FULL SPECTRUM APPLICATION
“Mobile Tactical Force Protection Package”
-Layered Defense -

- Core Force capability must interoperate w/ this Arch
- Terrain Analysis Identifies Gaps in Unit’s SA- defines TPSE Deployment
- Sensor/SA data provided to Site CP Threat/IPD data pushed to TPSE
- Net Fire
- ASREQ Call For Fire
- Connectivity to the TACNET
- QRF
- Tactical Trailer Mast Mounted Surveillance System and TPSE C2
- TPSE Cdr Deploys Response to ID Threat
- TPSE Vehicle deploys BLOS systems
- Organic S-UAV and UGV response to BLOS alarms
- LR GSR
- UGS/GSR Cues Imager
- Networked Unattended Ground Sensor
- LR Imaging Sensor With Targeting Capability

National/Strategy Assets provide IPB

Predator

Terrain Analysis Identifies Gaps in Unit’s SA- defines TPSE Deployment

Sensor/SA data provided to Site CP Threat/IPD data pushed to TPSE

Net Fire

ASREQ Call For Fire

Connectivity to the TACNET

QRF

Tactical Sensors Fill the Battlefield Situational Awareness Gaps – Complements Global Surveillance

Leverage Army’s Future Force

Future Force

Tech

Net Fire

Connectivity to the TACNET

QRF

Tactical Sensors Fill the Battlefield Situational Awareness Gaps – Complements Global Surveillance
Manned OPS
Force Protection Technology w/ open architecture can be Leveraged for the both DoD and DHS Missions

Tactical Security enhancements
Common Goal is to achieve a Force Multiplier

WRAP-UP
Questions?

Facility security enhancements
Force Protection COOP
First Responders
Training

Seaports

Money does not equal success Focused Investment Does!!

Airports

Force Protection Technology w/ open architecture can be Leveraged for the both DoD and DHS Missions

Tactical Security enhancements

Common Goal is to achieve a Force Multiplier